



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/775,451	02/10/2004	Nicholas DeMarco	012365-9011-01	9421
23409, 7590 07/16/2007 MICHAEL BEST & FRIEDRICH, LLP 100 E WISCONSIN AVENUE Suite 3300 MILWAUKEE, WI 53202			EXAMINER THERKORN, ERNEST G	
			ART UNIT 1723	PAPER NUMBER
			MAIL DATE 07/16/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/775,451

Applicant(s)

DEMARCO, NICHOLAS

Examiner

Ernest G. Therkorn

Art Unit

1723

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 June 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-42 is/are pending in the application.
- 4a) Of the above claim(s) 8,11-21 and 29-42 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7,9,10, and 22-28 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application
- ☐ Other: _____

Art Unit: 1723

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-7, 9-10, and 22-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Yamada (U.S. Patent No. 5,693,223) or Nakaso (U.S. Patent No. 5,360,544) in view of Lacy (U.S. Patent No. 6,280,619) and Fritze (U.S. Patent No. 6,953,526). At best, the claims differ from either Yamada (U.S. Patent No. 5,693,223) or Nakaso (U.S. Patent No. 5,360,544) in reciting use of a fused plug. Lacy (U.S. Patent No. 6,280,619) (column 3, lines 47-57) discloses spin welding a cap to the cartridge to "meld their adjacent surfaces together" for the obvious purpose of preventing leaking. Fritze (U.S. Patent No. 6,953,526) (column 1, lines 52-56) confirms spin welding minimizes leaks. It would have been obvious to spin weld in either Yamada (U.S. Patent No. 5,693,223) or Nakaso (U.S. Patent No. 5,360,544) because Lacy (U.S. Patent No. 6,280,619) (column 3, lines 47-57) discloses spin welding a cap to the cartridge to "meld their adjacent surfaces together" for the obvious purpose of

Art Unit: 1723

preventing leaking and Fritze (U.S. Patent No. 6,953,526) (column 1, lines 52-56) confirms spin welding minimizes leaks.

Claims 7 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Yamada (U.S. Patent No. 5,693,223) or Nakaso (U.S. Patent No. 5,360,544) in view of Lacy (U.S. Patent No. 6,280,619) and Fritze (U.S. Patent No. 6,953,526) as applied to claims 1-7, 9-10, and 22-28 above, and further in view of Goss (U.S. Patent No. 6,454,891). At best, the claims differ from either Yamada (U.S. Patent No. 5,693,223) or Nakaso (U.S. Patent No. 5,360,544) in view of Lacy (U.S. Patent No. 6,280,619) and Fritze (U.S. Patent No. 6,953,526) in reciting use of a bore. Goss (U.S. Patent No. 6,454,891) (Abstract, lines 1-14) discloses that a bore allows attachment to a drive means for spin welding. It would have been obvious to have a bore in either Yamada (U.S. Patent No. 5,693,223) or Nakaso (U.S. Patent No. 5,360,544) in view of Lacy (U.S. Patent No. 6,280,619) and Fritze (U.S. Patent No. 6,953,526) because Goss (U.S. Patent No. 6,454,891) (Abstract, lines 1-14) discloses that a bore allows attachment to a drive means for spin welding.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over either Yamada (U.S. Patent No. 5,693,223) or Nakaso (U.S. Patent No. 5,360,544) in view of Lacy (U.S. Patent No. 6,280,619) and Fritze (U.S. Patent No. 6,953,526) as applied to claims 1-7, 9-10, and 22-28 above, and further in view of Hou (U.S. Patent No. 5,089,654). At best, the claim differs from either Yamada (U.S. Patent No. 5,693,223) or Nakaso (U.S. Patent No. 5,360,544) in view of Lacy (U.S. Patent No. 6,280,619) and Fritze (U.S. Patent No. 6,953,526) in reciting use of a cover. Hou (U.S. Patent No.

Art Unit: 1723

5,089,654) (column 45, lines 3-5) discloses that use of a protective cap (cover) protects the inlet and outlet. It would have been obvious to use a cover in either Yamada (U.S. Patent No. 5,693,223) or Nakaso (U.S. Patent No. 5,360,544) in view of Lacy (U.S. Patent No. 6,280,619) and Fritze (U.S. Patent No. 6,953,526) because Hou (U.S. Patent No. 5,089,654) (column 45, lines 3-5) discloses that use of a protective cap (cover) protects the inlet and outlet.

Claims 1-7, 9-10, and 22-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Yamada (U.S. Patent No. 5,693,223) or Nakaso (U.S. Patent No. 5,360,544) in view of Reid (U.S. Patent No. 4,626,350), Lacy (U.S. Patent No. 6,280,619) and Fritze (U.S. Patent No. 6,953,526). At best, the claims differ from either Yamada (U.S. Patent No. 5,693,223) or Nakaso (U.S. Patent No. 5,360,544) in reciting use of fused plugs on both ends of the column. Reid (U.S. Patent No. 4,626,350) (column 2, lines 40-45 and column 5, lines 53-58) discloses that use of spin welding end caps in a process results in an improved cartridge which minimizes production costs and simplifies filling procedures. Lacy (U.S. Patent No. 6,280,619) (column 3, lines 47-57) discloses spin welding a cap to the cartridge to "meld their adjacent surfaces together" for the obvious purpose of preventing leaking. Fritze (U.S. Patent No. 6,953,526) (column 1, lines 52-56) confirms spin welding minimizes leaks. It would have been obvious to use fused plugs on both ends of the column because Reid (U.S. Patent No. 4,626,350) (column 2, lines 40-45 and column 5, lines 53-58) discloses that use of spin welding end caps in a process results in an improved cartridge which minimizes production costs and simplifies filling procedures. It would have been

Art Unit: 1723

obvious to spin weld in either Yamada (U.S. Patent No. 5,693,223) or Nakaso (U.S. Patent No. 5,360,544) because Lacy (U.S. Patent No. 6,280,619) (column 3, lines 47-57) discloses spin welding a cap to the cartridge to "meld their adjacent surfaces together" for the obvious purpose of preventing leaking and Fritze (U.S. Patent No. 6,953,526) (column 1, lines 52-56) confirms spin welding minimizes leaks.

Claims 7 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Yamada (U.S. Patent No. 5,693,223) or Nakaso (U.S. Patent No. 5,360,544) in view of Reid (U.S. Patent No. 4,626,350), Lacy (U.S. Patent No. 6,280,619) and Fritze (U.S. Patent No. 6,953,526) as applied to claims 1-7, 9-10, and 22-28 above, and further in view of Goss (U.S. Patent No. 6,454,891). At best, the claims differ from either Yamada (U.S. Patent No. 5,693,223) or Nakaso (U.S. Patent No. 5,360,544) in view of Reid (U.S. Patent No. 4,626,350), Lacy (U.S. Patent No. 6,280,619) and Fritze (U.S. Patent No. 6,953,526) in reciting use of a bore. Goss (U.S. Patent No. 6,454,891) (Abstract, lines 1-14) discloses that a bore allows attachment to a drive means for spin welding. It would have been obvious to have a bore in either Yamada (U.S. Patent No. 5,693,223) or Nakaso (U.S. Patent No. 5,360,544) in view of Reid (U.S. Patent No. 4,626,350), Lacy (U.S. Patent No. 6,280,619) and Fritze (U.S. Patent No. 6,953,526) because Goss (U.S. Patent No. 6,454,891) (Abstract, lines 1-14) discloses that a bore allows attachment to a drive means for spin welding.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over either Yamada (U.S. Patent No. 5,693,223) or Nakaso (U.S. Patent No. 5,360,544) in view of Reid (U.S. Patent No. 4,626,350), Lacy (U.S. Patent No. 6,280,619) and Fritze (U.S.

Patent No. 6,953,526) as applied to claims 1-7, 9-10, and 22-28 above, and further in view of Hou (U.S. Patent No. 5,089,654). At best, the claim differs from either Yamada (U.S. Patent No. 5,693,223) or Nakaso (U.S. Patent No. 5,360,544) in view of Reid (U.S. Patent No. 4,626,350), Lacy (U.S. Patent No. 6,280,619) and Fritze (U.S. Patent No. 6,953,526) in reciting use of a cover. Hou (U.S. Patent No. 5,089,654) (column 45, lines 3-5) discloses that use of a protective cap (cover) protects the inlet and outlet. It would have been obvious to use a cover in either Yamada (U.S. Patent No. 5,693,223) or Nakaso (U.S. Patent No. 5,360,544) in view of Reid (U.S. Patent No. 4,626,350), Lacy (U.S. Patent No. 6,280,619) and Fritze (U.S. Patent No. 6,953,526) because Hou (U.S. Patent No. 5,089,654) (column 45, lines 3-5) discloses that use of a protective cap (cover) protects the inlet and outlet.

Claims 1-7, 9-10, and 22-28 are rejected under 35 U.S.C. 102(B) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hou (U.S. Patent No. 5,089,654). The claims are considered to read on Hou (U.S. Patent No. 5,089,654). However, if a difference exists between the claims and Hou (U.S. Patent No. 5,089,654), it would reside in optimizing the elements of Hou (U.S. Patent No. 5,089,654). It would have been obvious to optimize the elements of Hou (U.S. Patent No. 5,089,654) to enhance separation.

Claims 1-7, 9-10, and 22-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hou (U.S. Patent No. 5,089,654) in view of Lacy (U.S. Patent No. 6,280,619) and Fritze (U.S. Patent No. 6,953,526). At best, the claims differ from Hou (U.S. Patent No. 5,089,654) in reciting use of a fused plug. Lacy (U.S. Patent No.

Art Unit: 1723

6,280,619) (column 3, lines 47-57) discloses spin welding a cap to the cartridge to "meld their adjacent surfaces together" for the obvious purpose of preventing leaking. Fritze (U.S. Patent No. 6,953,526) (column 1, lines 52-56) confirms spin welding minimizes leaks. It would have been obvious to spin weld in Hou (U.S. Patent No. 5,089,654) because Lacy (U.S. Patent No. 6,280,619) (column 3, lines 47-57) discloses spin welding a cap to the cartridge to "meld their adjacent surfaces together" for the obvious purpose of preventing leaking and Fritze (U.S. Patent No. 6,953,526) (column 1, lines 52-56) confirms spin welding minimizes leaks.

Claims 7 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Hou (U.S. Patent No. 5,089,654) alone or Hou (U.S. Patent No. 5,089,654) in view of Lacy (U.S. Patent No. 6,280,619) and Fritze (U.S. Patent No. 6,953,526) as applied to claims 1-7, 9-10, and 22-28 above, and further in view of Goss (U.S. Patent No. 6,454,891). At best, the claims differ from either Hou (U.S. Patent No. 5,089,654) alone or Hou (U.S. Patent No. 5,089,654) in view of Lacy (U.S. Patent No. 6,280,619) and Fritze (U.S. Patent No. 6,953,526) in reciting use of a bore. Goss (U.S. Patent No. 6,454,891) (Abstract, lines 1-14) discloses that a bore allows attachment to a drive means for spin welding. It would have been obvious to have a bore in either Hou (U.S. Patent No. 5,089,654) alone or Hou (U.S. Patent No. 5,089,654) in view of Lacy (U.S. Patent No. 6,280,619) and Fritze (U.S. Patent No. 6,953,526) because Goss (U.S. Patent No. 6,454,891) (Abstract, lines 1-14) discloses that a bore allows attachment to a drive means for spin welding.

Claims 1-7, 9-10, and 22-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hou (U.S. Patent No. 5,089,654) in view of Reid (U.S. Patent No. 4,626,350). At best, the claims differ from Hou (U.S. Patent No. 5,089,654) in reciting use of fused plugs on both ends of the column. Reid (U.S. Patent No. 4,626,350) (column 2, lines 40-45 and column 5, lines 53-58) discloses that use of spin welding end caps in a process results in an improved cartridge which minimizes production costs and simplifies filling procedures. It would have been obvious to use fused plugs on both ends of the column because Reid (U.S. Patent No. 4,626,350) (column 2, lines 40-45 and column 5, lines 53-58) discloses that use of spin welding end caps in a process results in an improved cartridge which minimizes production costs and simplifies filling procedures.

Claims 1-7, 9-10, and 22-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hou (U.S. Patent No. 5,089,654) in view of Reid (U.S. Patent No. 4,626,350), Lacy (U.S. Patent No. 6,280,619), and Fritze (U.S. Patent No. 6,953,526). At best, the claims differ from Hou (U.S. Patent No. 5,089,654) in reciting use of a fused plug. Reid (U.S. Patent No. 4,626,350) (column 2, lines 40-45 and column 5, lines 53-58) discloses that use of spin welding end caps in a process results in an improved cartridge which minimizes production costs and simplifies filling procedures. Lacy (U.S. Patent No. 6,280,619) (column 3, lines 47-57) discloses spin welding a cap to the cartridge to "meld their adjacent surfaces together" for the obvious purpose of preventing leaking. Fritze (U.S. Patent No. 6,953,526) (column 1, lines 52-56) confirms spin welding minimizes leaks. It would have been obvious to use fused plugs on both

ends of the column because Reid (U.S. Patent No. 4,626,350) (column 2, lines 40-45 and column 5, lines 53-58) discloses that use of spin welding end caps in a process results in an improved cartridge which minimizes production costs and simplifies filling procedures. It would have been obvious to spin weld in Hou (U.S. Patent No. 5,089,654) because Lacy (U.S. Patent No. 6,280,619) (column 3, lines 47-57) discloses spin welding a cap to the cartridge to "meld their adjacent surfaces together" for the obvious purpose of preventing leaking and Fritze (U.S. Patent No. 6,953,526) (column 1, lines 52-56) confirms spin welding minimizes leaks.

Claims 7 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Hou (U.S. Patent No. 5,089,654) in view of Reid (U.S. Patent No. 4,626,350) alone or Hou (U.S. Patent No. 5,089,654) in view of Reid (U.S. Patent No. 4,626,350), Lacy (U.S. Patent No. 6,280,619), and Fritze (U.S. Patent No. 6,953,526) as applied to claims 1-7, 9-10, and 22-28 above, and further in view of Goss (U.S. Patent No. 6,454,891). At best, the claims differ from either Hou (U.S. Patent No. 5,089,654) in view of Reid (U.S. Patent No. 4,626,350) alone or Hou (U.S. Patent No. 5,089,654) in view of Reid (U.S. Patent No. 4,626,350), Lacy (U.S. Patent No. 6,280,619), and Fritze (U.S. Patent No. 6,953,526) in reciting use of a bore. Goss (U.S. Patent No. 6,454,891) (Abstract, lines 1-14) discloses that a bore allows attachment to a drive means for spin welding. It would have been obvious to have a bore in either Hou (U.S. Patent No. 5,089,654) in view of Reid (U.S. Patent No. 4,626,350) alone or Hou (U.S. Patent No. 5,089,654) in view of Reid (U.S. Patent No. 4,626,350), Lacy (U.S. Patent No. 6,280,619), and Fritze (U.S. Patent No. 6,953,526) because Goss (U.S. Patent No.

Art Unit: 1723

6,454,891) (Abstract, lines 1-14) discloses that a bore allows attachment to a drive means for spin welding.

Claims 1-7, 9-10, and 22-28 are rejected under 35 U.S.C. 102(B) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Reid (U.S. Patent No. 4,626,350). The claims are considered to read on Reid (U.S. Patent No. 4,626,350). However, if a difference exists between the claims and Reid (U.S. Patent No. 4,626,350), it would reside in optimizing the elements of Reid (U.S. Patent No. 4,626,350). It would have been obvious to optimize the elements of Reid (U.S. Patent No. 4,626,350) to enhance separation.

Claims 7 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reid (U.S. Patent No. 4,626,350) as applied to claims 1-7, 9-10, and 22-28 above, and further in view of Goss (U.S. Patent No. 6,454,891). At best, the claims differ from Reid (U.S. Patent No. 4,626,350) in reciting use of a bore. Goss (U.S. Patent No. 6,454,891) (Abstract, lines 1-14) discloses that a bore allows attachment to a drive means for spin welding. It would have been obvious to have a bore in Reid (U.S. Patent No. 4,626,350) because Goss (U.S. Patent No. 6,454,891) (Abstract, lines 1-14) discloses that a bore allows attachment to a drive means for spin welding.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Reid (U.S. Patent No. 4,626,350) as applied to claims 1-7, 9-10, and 22-28 above, and further in view of Hou (U.S. Patent No. 5,089,654). At best, the claim differs from Reid (U.S. Patent No. 4,626,350) in reciting use of a cover. Hou (U.S. Patent No. 5,089,654) (column 45, lines 3-5) discloses that use of a protective cap (cover) protects the inlet

Art Unit: 1723

and outlet. It would have been obvious to use a cover in Reid (U.S. Patent No. 4,626,350) because Hou (U.S. Patent No. 5,089,654) (column 45, lines 3-5) discloses that use of a protective cap (cover) protects the inlet and outlet.

Claims 22-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reid (U.S. Patent No. 4,626,350) as applied to claims 1-7, 9-10, and 22-28 above, and further in view of Snyder (Introduction to Modern Liquid Chromatography, John Wiley, New York, 1979, pages 21-22 and 410-414). At best, the claims differ from Reid (U.S. Patent No. 4,626,350) in reciting that Reid (U.S. Patent No. 4,626,350)'s column 1, line 18's ion exchange resins are a chromatography medium. Snyder (Introduction to Modern Liquid Chromatography, John Wiley, New York, 1979, pages 21-22 and 410-414) discloses that ion exchange chromatography is one of four major branches of chromatography. It would have been obvious that Reid (U.S. Patent No. 4,626,350)'s column 1, line 18's ion exchange resins are a chromatography medium because Snyder (Introduction to Modern Liquid Chromatography, John Wiley, New York, 1979, pages 21-22 and 410-414) discloses that ion exchange chromatography is one of four major branches of chromatography.

Claim 28 is rejected under 35 U.S.C. 103(a) as being unpatentable over Reid (U.S. Patent No. 4,626,350) in view of Snyder (Introduction to Modern Liquid Chromatography, John Wiley, New York, 1979, pages 21-22 and 410-414) as applied to claims 22-28 above, and further in view of Goss (U.S. Patent No. 6,454,891). At best, the claim differs from Reid (U.S. Patent No. 4,626,350) in view of Snyder (Introduction to Modern Liquid Chromatography, John Wiley, New York, 1979, pages 21-22 and 410-

414) in reciting use of a bore. Goss (U.S. Patent No. 6,454,891) (Abstract, lines 1-14) discloses that a bore allows attachment to a drive means for spin welding. It would have been obvious to have a bore in Reid (U.S. Patent No. 4,626,350) in view of Snyder (Introduction to Modern Liquid Chromatography, John Wiley, New York, 1979, pages 21-22 and 410-414) because Goss (U.S. Patent No. 6,454,891) (Abstract, lines 1-14) discloses that a bore allows attachment to a drive means for spin welding.

The remarks urge Hou (U.S. Patent No. 5,089,654) does not disclose a portion of the outer circumference of his cap is fused to the inner surface of the housing. However, as shown in Figure 12, a projection of cap extends into the housing. This projection is considered to be an outer surface of the cap because, prior to being inserted into the housing, it is the first surface a line moving from outside the cap radially inward hits. Hou (U.S. Patent No. 5,089,654) (column 45, lines 3-4) discloses the cap and housing are held together by welding. Fusing is considered to read on welding. As such, Hou (U.S. Patent No. 5,089,654) is considered to disclose a portion the outer circumference of his cap is fused to the inner surface.

The remarks urge patentability based upon the Demarco June 25, 2007 opinion declaration. The opinion declaration has been considered but is not considered to be pertinent because it is directed to opinions and not facts.

The unofficial copy of the CD-R left during the interview of July 12, 2007 has been considered. The CD-R appeared to have no sound. However, the CD-R appeared to show that Analogix Superflash failed at a higher pressure than Redi Sep. However, the CD-R would not appear to be pertinent because Redi Sep has not been

Art Unit: 1723

relied upon as a reference. In addition, it is not clear what elements must be claimed to make the claims of commensurate scope with the showing.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to E. Therkorn at telephone number (571) 272-1149. The official fax number is 571-273-8300.

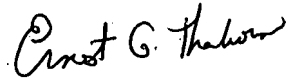
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic

Application/Control Number: 10/775,451

Page 14

Art Unit: 1723

Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read "Ernest G. Therkorn".

Ernest G. Therkorn
Primary Examiner
Art Unit 1723

EGT

July 13, 2007